

RHIN SERIES

On-line UPS double conversion high frequency from 1 to 3 KVA



Description



The Rhin Series UPS include active input PFC rectifier (Power Factor Corrector) and make use of the advantages of PWM technology with IGBTs. In most cases electrical supply problems are resolved without the use of the battery, thereby increasing its service life. They are ideal for backing up critical systems of up to 3kVA that need a highly reliable, quality electricity supply, with the added benefit of being cost effective.

Data is provided locally through mimic panel with LEDs. The communications interface, together with its powerful software, allows users to monitor the status of the unit and provides information on its environment.



Rhin 3 KVA tower and rack



Rear connections Rhin 1 KVA



Rear connections Rhin 2/3 KVA

Features

- > UPS online double conversion
- > Microprocessor digital control technology
- > Power: 1,2 and 3 KVA
- > Tower and 19 inches rack convertible
- > Visual alarms (led) and acoustic in the case of mains failure
- > Reduced harmonic distortion of output signal
- > Wide input voltage range
- > Small frequency harmonic distortion
- > Battery mode start up without mains line
- > 6 IEC sockets
- > Protections against overvoltages, short-circuits and low battery voltage
- > RS232 communication port and monitoring software
- > Cables also included: 2xIEC cables, 1xRJ11 cable for modem protection and 1xUSB cable for equipment monitoring
- > Extended battery options available
- > Programmable shutdown
- > High input power factor ≥ 0.98
- > Standard format 19 inches
- > Automatic bypass
- > SNMP card optional
- > Rail kit UPS cabinet holders (optional)
- > 2 years warranty batteries included

- ① IEC inputs/Terminals
- ② Protection/Protection with fuse
- ③ RS232 communication port
- ④ IEC outputs
- ⑤ Battery connection

domestic use

network

data centers

medicine

telecommunications

security

industrial



GENERAL SPECIFICATIONS				
Model	Rhin 1		Rhin 2	Rhin 3
Reference	018262		018263	018264
Power KVA	1		2	3
GENERAL				
Technology	On-Line, double conversion, high frequency			
Overload	130%- 60 sec. 150% for 30 sec.			
INPUT				
Voltage range	170~290 Vac			
PFC	≥ 0,98			
Frequency	50 Hz ±5%			
Connectors	IEC plug		Terminals	
OUTPUT				
Power (KVA/KW)	1/0,7		2/1,4	3/2,1
Voltage	230 Vac ± 2%			
Output frequency	50Hz ±0,5% (battery mode)			
Outputs	6 IEC sockets			
Type of wave	Pure sinewave			
Harmonic distortion (linear load) THD	<3%			
Crest factor	3:1			
BATTERIES & BACKUP TIME				
Standard battery	Pb VRLA (lead battery with anti-leak seal)			
Backup time	From 5 to 90 min			
Charge time	8h-90%			
INDICATORS				
Leds	Line failure, system fault conditions, overload, low battery,			
Acoustics	Line failure, overload, low battery			
COMMUNICATION				
Control software	UPSilon 2000			
Communications	RS232 port			
Indicators	Automatic functions shutdown: voltage, input/output frequency, load status, battery capacity, temperature, historic events, system analysis, 7 alarms type			
SNMP card optional	RS232 Ethernet converter			
PROTECTION				
Protections	Current limitation, overload, short-circuit and temperature			
Automatic bypass	Yes			
RFI filter	Yes			
PFC	Yes			
STANDARDS				
Marks	CE			
Directives	EN 62040-1-1:2003 / EN 50091-2:1996			
OTHERS				
Operation temperature	0-40°C			
Relative humidity	0-95% (non-condensing or ice)			
Altitude without decreasing power	1000 over sea level			
Acoustic level	<45dBA			
UPS dimensions WxHxD (mm)	440x486x88		440x486x88	440x486x88
Batteries module dimensions WxHxD (mm)	-		440x486x132	
Dimensions U	2U (UPS+batteries)		2U (UPS)+2U (batteries)	
UPS weight ** (Kgs)	14 (internal batteries)		10	11
Batteries module weight (Kgs)	-		12	16

* 2 & 3 KVA model: internal batteries, consult dimensions and weights for other autonomies.

** 1KVA model with other autonomies: external battery module, consult dimensions and weights.

Specifications may be changed without notice.